Amendments to the Claims

The following listing of claims replaces all prior versions and listings of claims in the application:

1. (Curre	ently Amended) A wireless communication de	evice driven by an internal
power supply, the dev	vice continuing a communication connection v	vith another wireless
communication devic	ce by a control signal, and performing data tran	nsmission/reception with
said another wireless	communication device, comprising: disturban	ce component extracting
means for extracting	from a signal received by a receiving antenna	a disturbance component
which may affect the	device's wireless communication signal	
an RS	SI signal extracting means for extracting from	a received signal an RSSI
signal representing a	level of the received signal; disturbance wave	periodicity detecting
means for detecting t	he radiation period by comparing the disturba	nce component extracted
by said disturbance c	component extracting means with a frequency	divided signal obtained at
a gradually varying f	requency dividing ratio with respect to a clock	signal of a predetermined
frequency; and		
a dist	urbance wave periodicity detecting means for o	detecting a radiation
periodicity of a distu	rbance wave signal included in said RSSI sign	al, and distinguishing said
radiation periodicity	of said disturbance wave signal to data transm	ission/reception with said
another wireless con	nmunications device;	,
a com	nmunication control-means for performing the	exchange of a
communication pack	cet during a radiation-free period of time within	n the radiation period
detected by said dist	urbance wave periodicity detecting meansthe o	lata transmission/reception
with said another wireless communications device; and		
a con	nmunication connection continuing means for	continuing the
communication con	nection with said another wireless communicate	tions device by said control

signal established into a present frequency band which is not substantially affected by said disturbance wave signal.

- 2. (Currently Amended) The wireless communication device according to claim 1, wherein said disturbance wave periodicity detecting means comprises a frequency dividing circuit for gradually increasing a frequency dividing ratio with respect to an input clock signal of a predetermined frequency and a period determination circuit for determining the period of asaid disturbance wave signal by comparing a signal received by a receiving antenna said RSSI signal extracted by said RSSI extracting means with a frequency-divided signal from said frequency dividing circuit.
- 3. (Currently Amended) The wireless communication device according to claim
 1, wherein said eemmunication control means comprises communication connection
 continuing means for shifting shifts the transmission frequency of asaid control signal to keep
 the communication connection established into a preset disturbance free frequency band
 which is not substantially affected by said disturbance wave signal and to secure to continue
 the continuation of the communication connection with said another wireless
 communications device when the radiation period of asaid disturbance wave signal is
 detected by said disturbance wave periodicity detecting means.
- 4. (Currently Amended) The wireless communication device according to claim 1, wherein said communication control means communication connection continuing means comprises transmission means for notifying of a communication partner about the presence and period of asaid disturbance wave signal, anythe communication partner which cannot unable to detect the presence of the disturbance wave signal when the radiation period of asaid disturbance wave signal is detected by said disturbance wave periodicity detecting means.

- 5. (Currently Amended) The wireless communication device according to claim 1, comprising power control means for controlling the power depending on the radiation period of the disturbance wave <u>signal</u> detected by said disturbance wave periodicity detecting means.
- 6. (Currently Amended) The wireless communication device according to claim 5, wherein said power control means is configured to determine whether a communication packet can be transmitted said data transmission/reception with said another wireless communication device can be performed when the radiation period of asaid disturbance wave signal is detected by said disturbance wave periodicity detecting means, and to discontinue the power control when the communication packet cannot be transmitted said data transmission/reception cannot be performed.
- 7. (Currently Amended) The wireless communication device according to claim 2, wherein said communication control means communication connection continuing means comprises transmission means for notifying of a communication partner about the presence and period of asaid disturbance wave signalany, the communication partner which cannot unable to detect the presence of the disturbance wave signal when the radiation period of asaid disturbance wave signal is detected by said disturbance wave periodicity detecting means.
- 8. (Currently Amended) The wireless communication device according to claim
 3, wherein said communication control means communication connection continuing means
 comprises transmission means for notifying of, about the presence and period of asaid
 disturbance wave signalany, to communication partner which cannot detect the presence of
 the disturbance wave signal when the radiation period of a disturbance wave signal is detected
 by said disturbance wave periodicity detecting means.

- 9. (Currently Amended) The wireless communication device according to claim 2, comprising power control means for controlling the power depending on the radiation period of the disturbance wave <u>signal</u> detected by said disturbance wave periodicity detecting means.
- 10. (Currently Amended) The wireless communication device according to claim 3, comprising power control means for controlling the power depending on the radiation period of the disturbance wave <u>signal</u> detected by said disturbance wave periodicity detecting means.
- 11. (Currently Amended) The wireless communication device according to claim 4, comprising power control means for controlling the power depending on the radiation period of the disturbance wave detected by said disturbance wave <u>signal</u> periodicity detecting means.
- 12. (Currently Amended) The wireless communication device according to claim2,

wherein said communication control means comprises communication

connection continuing means for shiftingshifts the transmission frequency of asaid control

signal to keep the communication connection established into a preset disturbance free

frequency band which is not substantially affected by said disturbance wave signal and to

secure the continuation of to continue the communication connection with said another

wireless communications device when the radiation period of asaid disturbance wave signal is

detected by said disturbance wave periodicity detecting means.